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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON 25, D. C.
(April 14, 1950)

Letter
Circular
LC 983
(Supersedes
LC 909)

MASONRY, MASONRY UNITS, AND MORTAR

Publications by Members of the Staff of the National Bureau of Standards, together with a list of Federal Specifications.

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GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of publications of the Bureau and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable from the National Bureau of Standards.

Where the price is stated, the publication may be purchased from the Superintendent of Documents by remitting either coupons obtainable from him in sets of 20 for $1.00 and good until used, or check or money order made payable to the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Letter Circulars are obtainable, without charge, from the Bureau.

Publications marked "OP" are out of print, but, in general, may be consulted at technical libraries.

For papers in other scientific or technical journals, the name of the journal or of the organization publishing the article is given in abbreviated form with the volume number (underscored), page, and year of publication, in the order named.

Serial letters are used to designate the several series of Bureau publications:

S = "Scientific Paper." S1 to S329 are "Reprints" from the "Bulletin of the Bureau of Standards." S330 to S572 were published as "Scientific Papers of the Bureau of Standards." This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

T = "Technologic Paper." T1 to T370. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

RP = "Research Paper." These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and the "Journal of Research of the National Bureau of Standards," the latter being the title of this periodical since July 1934 (volume 13, number 1).

C = "Circular."

LC = "Letter Circular."

BMS = "Building Materials and Structures" publication.

M = "Miscellaneous Publications."

R = "Simplified Practice Recommendation."

FS = "Federal Specifications."

A complete list of publications of the National Bureau of Standards, designated as Circular 460, may be procured from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., for 75 cents. Announcement of the release of new Bureau publications is made each month in the Technical News Bulletin, obtainable by subscription from the Superintendent of Documents, for $1.00 a year in the United States, Canada, Cuba, Mexico, Newfoundland, and Republic of Panama; in other countries for $1.35 a year.

PART I - SCIENTIFIC PAPERS

	Series	Price
Transmission and absorption of sound by some building materials. E. A. Eckhardt and V. L. Chrisler. Sci. Pap. BS 21, 37 (1926-27).	S526	OP
Transmission of sound through building materials. V. L. Chrisler. Sci. Pap. BS 22, 227 (1927-28).	S552	OP

PART II - TECHNOLOGIC PAPERS

	Series	Price
The effect of overfiring upon the structure of clays. A. V. Bleininger and E. T. Montgomery. Tech. Pap. BS 3, (1913)	T22	OP
Durability of stucco and plaster construction. R. J. Wig, J. C. Pearson and W. E. Emley. Tech. Pap. BS 7, (1916-17).	T70	OP
Manufacture and properties of sand-lime brick. W. E. Emley, Tech. Pap. BS 9, (1916-17)	T85	OP
Compressive strength of large brick piers. J. C. Bragg. Tech. Pap. BS 11, (1918-19).	T111	OP
Tests of hollow building tiles. B. D. Hathcock and E. Skillman. Tech. Pap. BS 11, (1919).	T120	OP
Physical and chemical tests of the commercial marbles of the United States. D. W. Kessler. Tech. Pap. BS 12, (1919).	T123	OP
Heat insulating properties of building materials. W. A. Hull. Tech. Pap. BS 12, (1919).	T130	OP
Measurement of plasticity of mortars and plasters. W. E. Emley. Tech. Pap. BS 13, (1919).	T169	OP
Fire tests of building columns. S. H. Ingberg, H. K. Griffin, W. C. Robinson, and R. E. Wilson. Tech. Pap. BS 15, (1921).	T184	75¢
Tests of a hollow tile and concrete floor slab reinforced in two directions. W. A. Slater, A. Hagener, and G. P. Anthos. Tech. Pap. BS 16, 727 (1921-22).	T220	25¢
Loading tests of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D. C. L. J. Larson and S. N. Petrenko. Tech. Pap. BS 17, 405 (1922-24).	T236	OP
Some compressive tests of hollow tile walls. H. L. Whittemore and B. D. Hathcock. Tech. Pap. BS 17, 513 (1922-24).	T238	OP
Exposure tests on colorless waterproofing materials. D. W. Kessler. Tech. Pap. BS 18, 1 (1924-25).	T248	OP
Equalizer apparatus for transverse tests of bricks. H. L. Whittemore. Tech. Pap. BS 18, 107 (1924-25).	T251	OP
Fire resistance of concrete columns. W. A. Hull and S. H. Ingberg. Tech. Pap. B.S. 18, (1924-25).	T272	25¢

PART II - TECHNOLOGIC PAPERS (Continued)

	Series	Price
Compressive strength of sand-lime brick walls. H. L. Whittemore and A. H. Stang. Tech. Pap. BS 19, 57 (1924-25).	T276	OP
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. Tech. Pap. BS 19, 465 (1924-25).	T291	OP
Permeability of stone. D. W. Kessler, Tech. Pap. BS 20, 155 (1925-26).	T305	10¢
Durability of cement drain tile and concrete in alkali soils; fourth progress report (1923). G. M. Williams and I. Furlong. Tech. Pap. BS 20, 191 (1925-26).	T307	OP
Cement-lime mortars (with bibliography). H. V. Johnson. Tech. Pap. BS 20, 241 (1925-26).	T308	OP
Compressive and transverse strength of hollow-tile walls. A. H. Stang, D. E. Parsons, and H. M. Foster. Tech. Pap. BS 20, 317 (1925-26).	T311	15¢
A portable apparatus for transverse tests of brick. A. H. Stang. Tech. Pap. BS 21, 347 (1925-26).	T341	OP
Physical properties of the principal commercial limestones used for building construction in the United States. D. W. Kessler and W. H. Sligh. Tech. Pap. BS 21, 497 (1926-27).	T349	OP
A study of problems relating to the maintenance of interior marble. D. W. Kessler, Tech. Pap. BS 21, 591 (1926-27).	T350	OP
Strength of interlocking-rib tile walls. A. H. Stang, D. E. Parsons, and A. B. McDaniel. Tech. Pap. BS 22, 389 (1927-28).	T366	OP
Cause and prevention of kiln and dry-house scum and of efflorescence on face-brick walls. L. A. Palmer. Tech.Pap.BS22, 579 (1927-28).	T370	OP

PART III - RESEARCH PAPERS

	Series	Price
Studies of machines for extruding clay columns. Augers, spacers and dies for brick machines. Paul C. Grunwell. BS J. Research 1, 1023 (1928).	RP36	OP
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research 2, 1 (1929).	RP37	OP
Transmission of sound through wall and floor structures. V. L. Chrisler and W. F. Snyder. BS J. Research 2, 541 (1929).	RP48	OP

PART III - RESEARCH PAPERS (Continued)

	Series	Price
The compressive and transverse strength of brick. J. W. McBurney. BS J. Research 2, 821 (1929).	RP59	OP
Some absorption properties of clay bricks. L. A. Palmer. BS J. Research 3, 105 (1929).	RP88	OP
Compressive strength of clay brick walls. A. H. Stang, D. E. Parsons, and J. W. McBurney. BS J. Research 3, 507 (1929).	RP108	OP
Tests of composite beams and slabs of hollow tile and concrete. D. E. Parsons and A. H. Stang. BS J. Research 4, 815 (1930).	RP181	15¢
Methods of measuring strains between glazes and ceramic bodies. H. G. Schurecht and G. R. Pole. BS J. Research 5, 97 (1930).	RP189	OP
Moisture expansion of glazes and other ceramic finishes. H. G. Schurecht and G. R. Pole. BS J. Research 6, 457 (1931).	RP288	OP
Durability and strength of bond between mortar and brick. L. A. Palmer and J. V. Hall, Jr., BS J. Research 6, 473 (1931).	RP290	OP
Heat transfer through building walls. M. S. VanDuzen and J. L. Finck. BS J. Research 6, 493 (1931).	RP291	OP
Factors affecting the strength of masonry of hollow units. D. E. Parsons. BS J. Research 6, 857(1931).	RP310	OP
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research 6, 1003 (1931).	RP321	OP
The physical properties of cast stone. J. Tucker, Jr., G. W. Walker, and J. A. Swenson. BS J. Research 7, 1067 (1931).	RP389	5¢
Tests of integral and surface waterproofings for concrete. C. H. Jumper. BS J. Research 7, 1147 (1931).	RP394	OP
Physical properties and weathering characteristics of slate. D. W. Kessler and W. H. Sligh. BS J. Research 9, 377 (1932).	RP477	OP
Shear tests of reinforced brick masonry beams. D. E. Parsons, A. H. Stang, and J. W. McBurney. BS J. Research 9, 749 (1932).	RP504	OP
Compressive strength of steel columns incased in brick walls. A. L. Harris, A. H. Stang, and J. W. McBurney. BS J. Research 10, 123 (1933).	RP520	5¢

PART III - RESEARCH PAPERS (Continued)

	Series	Price
Fire tests of columns protected with gypsum. N. D. Mitchell. BS J. Research 10, 737 (1933).	RP563	5¢
Wear resistance of natural stone floorings. D. W. Kessler. BS J. Research 11, 635 (1933).	RP612	10¢
Wear of dies for extruding plastic clay. R. T. Stull. BS J. Research 12, 501 (1934).	RP675	5¢
A study of the properties of mortars and bricks and their relation to bond. L. A. Palmer and D. A. Parsons. BS J. Research 12, 609 (1934).	RP683	OP
Investigation of commercial masonry cements. J. S. Rogers and R. L. Blaine. J. Research NBS 13, 811 (1934).	RP746	OP
Experiments on exterior waterproofing materials for masonry. D. W. Kessler. J. Research NBS 14, 317 (1935).	RP771	OP
Performance of a hollow-ware extrusion machine with different combinations of augers, spacers, and dies. P. V. Johnson and R. T. Stull. J. Research NBS 14, 711 (1935).	RP798	5¢
Action of "hypo" solution on stone tanks. D. W. Kessler. J. Research NBS 16, 161 (1936).	RP864	OP
Differences in limes as reflected in certain properties of masonry mortars. Lansing S. Wells, Dana L. Bishop, and David Watstein. J. Research NBS 17, 895 (1936).	RP952	5¢
Compressive strength of structural tile masonry. D. E. Parsons and David Watstein. J. Research NBS 18, 215 (1937).	RP972	10¢
Accelerated weathering tests of mineral-surfaced asphalt shingles. H. R. Snoke and B. E. Gallup. J. Research NBS 19, 669 (1937).	RP1002	10¢
The wick test for efflorescence of building brick. J. W. McBurney and D. E. Parsons. J. Research NBS 19, No. 1, 105 (July 1937). Also Proc. A. S. T. M. 37, Pt. II, 332 (1937).	RP1015	5¢
Hydration of magnesia in dolomitic hydrated limes and putties. L. S. Wells and K. Taylor. J. Research NBS 19, 215 (1937).	RP1022	OP
Strength, water absorption and resistance to freezing and thawing of sand-lime brick. J. W. McBurney and A. R. Eberle. J. Research NBS 20, 67 (1938).	RP1065	5¢

PART III - RESEARCH PAPERS (Continued)

	Series	Price
Relation between moisture content and flow-point pressure of plastic clay. R. T. Stull and P. V. Johnson. J. Research NBS 22, 329 (1939).	RP1186	OP
Properties of air-setting refractory-bonding mortars of the wet type. R. A. Heindl and W. L. Pendergast. J. Research NBS 23, 7 (1939).	RP1219	OP
Particle size and plasticity of lime. D. L. Bishop. J. Research NBS 23, 285 (1939).	RP1232	OP
Length changes and endothermic and exothermic effects during heating of flint and aluminous clays. R. A. Heindl and L. E. Mong. J. Research NBS 23, (1939).	RP1243	OP
A portable apparatus for determining the relative wear resistance of concrete floors. L. Schuman and J. Tucker, Jr., J. Research NBS 23, (1939).	RP1252	10¢
Application of vibrators for measuring mortar consistency and fabricating mortar cubes. R. L. Blaine and J. Tucker, Jr., J. Research NBS 24, (1940).	RP1273	10¢
Physical, mineralogical and durability studies on the building and monumental granites of the U. S. D. W. Kessler, H. Insley, and W. H. Sligh. J. Research NBS 25, 161 (1940).	RP1320	15¢
Some properties of the pore structure in bricks and their relation to frost action. R. T. Stull and P. V. Johnson. J. Research NBS 25, (1940).	RP1349	10¢
Thermal expansion of clay building brick. C. W. Ross. J. Research NBS 27, (1941).	RP1414	10¢
Some properties of the dry air-setting type of refractory bonding mortar. R. A. Heindl and W. L. Pendergast. J. Research NBS 28. (1942).	RP1461	15¢
Some properties of heat-setting refractory mortars. R. A. Heindl and W. L. Pendergast. J. Research NBS 30. (1943).	RP1534	5¢
Function of carbon dioxide in producing efflorescence on plaster and cement products. D. L. Bishop. J. Research NBS 30. (1943).	RP1538	5¢
Ten-year tests of commercial masonry cements. R. L. Blaine. J. Research NBS 31. (1943).	RP1548	5¢
Thermal expansion of concrete aggregate materials. W. H. Johnson and W. H. Parsons. J. Research NBS 32. (1944).	RP1578	10¢

PART III - RESEARCH PAPERS (Continued)

	Series	Price
Expansive characteristics of hydrated limes and the development of an autoclave test for soundness. L. S. Wells, W. F. Clarke and Ernest M. Levin. J. Research NBS 41, 179. (1948).	RP1917	15¢

PART IV - CIRCULARS

	Series	Price
Sand-lime brick: Definitions and specifications. Cir. BS, C109. (1921).	C109	OP
Recommended specifications for quicklime and hydrated lime for use in the manufacture of sand-lime brick. Cir. BS, C150. (1923).	C150	OP
Recommended specification for quicklime and hydrated lime for the manufacture of silica brick. (1923).	C153	OP
Properties and manufacture of concrete building units.	C304	OP
Thermal insulation of buildings	C376	5¢
Low cost glazes for structural clay products	C436	10¢
Testing by National Bureau of Standards policy, general information, fee schedule	C483	25¢
Care and Repair of the House (1950)	C489	50¢

PART V - LETTER CIRCULARS

Cement: Publications by members of the staff of the National Bureau of Standards	LC851	Single Copy Free
Enamels: Publications by members of the staff of the National Bureau of Standards together with a list of Federal Specifications	LC873	"
Acoustics: Publications by members of the staff of the National Bureau of Standards	LC923	"
Sand-lime brick and other autoclaved building products: Publications by members of the staff of the National Bureau of Standards	LC944	"
Concrete and reinforced concrete: Publications by members of the staff of the National Bureau of Standards, together with a list of Federal Specifications	LC947	"
List of published materials relating to home building and maintenance	LC951	"
List of simplified practice recommendations, revised to July 1, 1949	LC958	"

PART V - LETTER CIRCULARS (Continued)

	Series	Price
List of building materials and structures reports	LC960	Single Copy Free
Fire resistance and fire prevention: Publications by members of the staff of the National Bureau of Standards	LC970	"
Publications relating to building practice, home building, building material specifications, home maintenance	LC972	"
List of published material relating to building regulations	LC973	"
Standards and specifications for building and construction materials, fixtures, supplies, and equipment	LC977	"

PART VI - BUILDING MATERIALS AND STRUCTURES

Structural properties of six masonry wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons (1938).	BMS5	15¢
Survey of roofing materials in the Southeastern States. H. R. Snoke and L. J. Waldron (1938).	BMS6	15¢
Structural properties of a "Tilecrete" floor construction sponsored by Tilecrete Floors, Inc., H. L. Whittemore, A. H. Stang, and C. C. Fishburn (1939).	BMS16	10¢
Sound insulation of wall and floor constructions with supplements. B. L. Chrisler (1939).	BMS17	35¢
Structural properties of a concrete-block cavity wall construction sponsored by the National Concrete Masonry Association. H. L. Whittemore, A. H. Stang, and D. E. Parsons (1939).	BMS21	10¢
Structural properties of "Dun-Ti-Stone" wall construction sponsored by the W. E. Dunn Manufacturing Company. H. L. Whittemore, A. H. Stang, and D. E. Parsons (1939).	BMS22	10¢
Structural properties of a brick cavity-wall construction sponsored by the Brick Manufacturers Association of New York, Inc. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS23	10¢
Structural properties of a reinforced brick construction and a brick-tile cavity-wall construction sponsored by the Structural Clay Products Institute, H. L. Whittemore, A. H. Stang, and C. C. Fishburn (1939).	BMS24	15¢

PART VI - BUILDING MATERIALS AND STRUCTURES (Continued)

	Series	Price
Structural properties of two brick-concrete-block wall constructions and a concrete-block wall construction sponsored by the National Concrete Masonry Association. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS32	15¢
Plastic calking materials. J. J. Tregoning, K. A. Milliken, A. Hockman, W. H. Sligh, and D. W. Kessler. (1940).	BMS33	15¢
Structural properties of two "Dunstone" wall constructions sponsored by the W. E. Dunn Manufacturing Co., H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS38	10¢
Structural properties of a wall construction of "Pfeifer Units" sponsored by the Wisconsin Units Company. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS39	10¢
Effect of heating and cooling on the permeability of masonry walls. C. C. Fishburn and P. H. Petersen. (1940).	BMS41	OP
Structural properties of a masonry wall construction of "Munlock Dry Wall Brick." H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS53	10¢
Effect of wetting and drying on the permeability of masonry walls. C. C. Fishburn. (1940).	BMS55	10¢
Strength, absorption, and resistance to laboratory freezing and thawing of building bricks produced in the United States. J. W. McBurney and J. C. Richmond. (1940).	BMS60	15¢
Structural properties of two non-reinforced monolithic concrete wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS61	10¢
Structural properties of a precast joist concrete floor construction sponsored by the Portland Cement Association. H. A. Whittemore, A. H. Stang, and D. E. Parsons. (1940).	BMS62	10¢
Moisture condensation in building walls. H. W. Worley. (1940).	BMS63	15¢
Fire tests of wood-and-metal-framed partitions, S. H. Ingberg and Nolan D. Mitchell. (1941).	BMS71	20¢
Effect of outdoor exposure on the water permeability of masonry walls. C. C. Fishburn, D. E. Parsons, and P. H. Petersen. (1941).	BMS76	15¢

PART VI. - BUILDING MATERIALS AND STRUCTURES (Continued)

	Series	Price
Structural heat-transfer, and water permeability properties of five earth-wall constructions. H. L. Whittemore, A. H. Stang, E. Hubbell, and R. S. Dill. (1942).	BMS78	25¢
Water permeability of walls built of masonry units. C. C. Fishburn. (1942).	BMS82	25¢
Structural, heat-transfer and water-permeability properties of "Speed-Brik" wall construction. M. H. Peck, V. B. Phelan, R. S. Dill, and P. H. Petersen. (1942).	BMS86	15¢
A method of developing specifications for building construction. (Report of Sub-committee on specifications, Central Housing Committee on Research, Design, and Construction.) (1942).	BMS87	15¢
Fire-resistance classifications of building constructions. (Report of Subcommittee on Fire-resistance Classifications of the Central Housing Committee on Research, Design, and Construction. (1942).	BMS92	30¢
Water permeability and weathering resistance of stucco-faced, gunite-faced, and "Knap Concrete-Unit" walls. C. C. Fishburn. (1942).	BMS94	15¢
Tests of cement-water paints and other waterproofings for unit-masonry walls. C. C. Fishburn and D. E. Parsons. (1943).	BMS95	25¢
Properties of a porous concrete of cement and uniform-sized gravel. P. H. Petersen. (1943).	BMS96	10¢
Physical properties of terrazzo aggregates. D. W. Kessler, A. Hockman, and R. E. Anderson. (1943).	BMS98	15¢
Relative slipperiness of floor and deck surfaces. P. A. Sigler. (1943).	BMS100	10¢
Strength and resistance of corrosion of ties for cavity walls. C. C. Fishburn. (1943).	BMS101	10¢
Measurement of heat losses from slab floors. R. S. Dill, W. C. Robinson, and H. E. Robinson. (1945).	BMS103	15¢
Paint manual with particular reference to Federal Specifications. P. H. Walker and E. F. Hickson. (1945).	BMS105	$1.00
Strength of houses; application of engineering principles to structural design. H. L. Whittemore, J. B. Cotter, A. H. Stang, and V. B. Phelan. (1948).	BMS109	$1.50

PART VI - BUILDING MATERIALS AND STRUCTURES (Continued)

	Series	Price
Properties of some lightweight-aggregate concretes with and without an air-entraining admixture. P. H. Petersen. (1948).	BMS112	10¢
Fire resistance of structural clay tile partitions. H. D. Foster, E. R. Pinkston, and S. H. Ingberg. (1948).	BMS113	15¢
Fire resistance of walls of lightweight-aggregate concrete masonry units. H. D. Foster, E. R. Pinkston, and S. H. Ingberg. (1950).	BMS117	

PART VII - MISCELLANEOUS PUBLICATIONS

American standard building code requirements for masonry. (1944).	M174	15¢
American standard building code requirements for minimum design loads in buildings and other structures. (1945)	M179	10¢

PART VIII- SIMPLIFIED PRACTICE RECOMMENDATIONS

Vitrified paving brick	R1-40	5¢
Metal lath. (Expanded and sheet).	R3-44	5¢
Brick, common; rough and smooth face	R7	*
Hollow building tile	R12	*
Structural slate (for plumbing and sanitary purposes)	R13-28	*
Roofing slate	R14-28	*
Blackboard slate	R15-35	5¢
Concrete building units	R32-38	OP
Sand-lime brick	R38-37	5¢
Steel reinforcing spirals	R53-32	5¢
Clay tiles for floors and walls	R61-44	10¢
Clay sewer pipe and fittings	R211-45	10¢

*Available in mimeograph form only, free of charge.

PART IX - FEDERAL SPECIFICATIONS

The specifications listed below are issued by the Federal Specifications Board, Bureau of Federal Supply, Treasury Department, Washington 25, D. C. Copies may be secured from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., at the prices indicated.

PART IX - FEDERAL SPECIFICATIONS

HH-M-611	Mortar: air-setting, refractory, bonding (wet and dry types)	5¢
HH-R-191	Refractories; fire-clay, plastic	5¢
QQ-B-71	Bars; reinforcement, (for) concrete	5¢
QQ-B-101	Bases, metal; (for) plaster and stucco construction	5¢
SS-B-656	Brick; building (common), clay	5¢
SS-B-663	Brick; concrete	5¢
SS-B-671	Brick; paving	5¢
SS-B-681	Brick; sand-lime	5¢
SS-B-691	Brick; sewer, clay	5¢
SS-C-158	Cements, hydraulic; general specifications (methods for sampling, inspection and testing)	15¢
SS-C-161	Cement; Keene's	5¢
SS-C-181	Cement; masonry	5¢
SS-C-192	Cements; portland	5¢
SS-C-621	Concrete-Units; masonry, hollow	5¢
SS-L-351	Lime; hydrated (for) structural purposes	5¢
SS-L-361	Lime; hydraulic, hydrated	5¢
SS-P-351	Pipe; asbestos-cement	5¢
SS-P-361	Pipe; clay, sewer	5¢
SS-P-371	Pipe, concrete; non-pressure, non-reinforced and reinforced	5¢
SS-P-402	Plaster; gypsum	5¢
SS-P-431	Plaster-Board; gypsum	5¢
SS-Q-351	Quicklime; (for) structural purposes	5¢
SS-S-276	Sheathing-board; gypsum	5¢
SS-S-283	Sheets: flat, asbestos-cement	5¢
SS-S-284	Sheets (corrugated) and Shapes; cement-asbestos	5¢

PART IX - FEDERAL SPECIFICATIONS

		Price
SS-S-291	Shingles; roofing, cement-asbestos	5¢
SS-S-346	Siding; cement-asbestos	5¢
SS-S-451	Slate; roofing	5¢
SS-T-310	Tile, Drain; clay	5¢
SS-T-316	Tile; partition, gypsum	5¢
SS-T-321	Tile; structural, clay, floor	5¢
SS-T-341	Tile; structural, clay load-bearing, wall	5¢
SS-T-351	Tile; structural, clay, non-load-bearing	5¢
SS-W-51	Wallboard, gypsum	5¢
TT-C-598	Compound, calking; plastic (for masonry and other structures)	5¢

PART X - OUTSIDE PUBLICATIONS

The articles listed below are not for distribution or sale by the Government, but may be consulted at most large libraries or in some cases may be purchased directly from the publishers. A list of publishers' addresses, with key to abbreviations, follows the list of papers.

The relation between the porosity and crushing strength of clay products. A. V. Bleininger. Trans. Am. Ceram. Soc. 12, 564 (1910).

Tests of lime, W. E. Emley. Trans. National Lime Manufacturers Association, 192 (1911).

Tests for sewer pipe. R. J. Wig. Proc. ASTM 11, 854 (1911).

The relation between the crushing strength and porosity of clay products. G. H. Brown, Trans. Am. Ceram. Soc. 14, 292 (1912).

Results of testing sand-lime brick. W. E. Emley, Proc. Sand-Lime Brick Association, now known as Autoclave Building Products Association, 41 (1912).

Tests of commercial limes. W. E. Emley, Proc. National Lime Manufacturers Assn., 77 (1913).

Use of hydrated lime in portland cement. W. E. Emley and H. P. Greenwald Proc. Nat'l Lime Mfgrs. Assn., 245 (1913).

Crushing strength of lime mortar. W. E. Emley and S. E. Young. Proc. Nat'l Lime Mfgrs. Assn., 254 (1913).

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PART X - OUTSIDE PUBLICATIONS (Continued)

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